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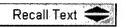
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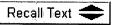
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<u>L2</u>	L1 OR 717/109.ccls.	445	<u>L2</u>
<u>L1</u>	717/100.ccls. OR 717/106.ccls.	298	L1

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☐ 1. Document ID: US 6694505 B1

L4: Entry 1 of 7

File: USPT

Feb 17, 2004

US-PAT-NO: 6694505

DOCUMENT-IDENTIFIER: US 6694505 B1

TITLE: Method for using a data flow net to specify and assemble computer software

DATE-ISSUED: February 17, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Tan; Hee Beng Kuan

Singapore

SG

US-CL-CURRENT: <u>717/100; 707/103R</u>, <u>717/101, 717</u>/102, 717/103, 717/104, 717/107, 719/331

ABSTRACT:

A method for specifying computer software called the Data Flow Net ("DF Net") which enables the reusability of portions of the software. Computer software is specified by combining sets of code fragments which implement some coherent functionalities. A method to represent a set of code fragments is provided. A method for combining sets of code fragments specified according to the DF Net method is described. A method for transforming software specified according to the DF Net method into executable instructions is further provided.

11 Claims, 18 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Semences	Alcoholaic Claims	KMC	Drawi De

☑ 2. Document ID: US 6684386 B1

L4: Entry 2 of 7

File: USPT

Jan 27, 2004

US-PAT-NO: 6684386

DOCUMENT-IDENTIFIER: US 6684386 B1

TITLE: Method for converting a UML rendering of an RSM-based metamodel to a UML

rendering of MOF-based metamodel

DATE-ISSUED: January 27, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Baisley; Donald Edward Laguna Hills CA

US-CL-CURRENT: 717/114; 717/100, 717/138

ABSTRACT:

A computer-implemented method for converting a <u>UML</u> rendering of an RSM-based metamodel to a UML rendering of a MOF-based metamodel. The method includes the steps of removing inheritance from classes defined within a Repository Services Model ("RSM") and removing each explicit "construct" operation from each class in the RSM-based metamodel Next, each use in the RSM-based metamodel of an RSM type is changed to use a non-RSM type. After this, each element of the RSM-based metamodel is converted to a corresponding MOF-based element and a determination is made as to whether or not the RSM naming service is used in the RSM-based metamodel, and if so "name" attributes are added that would have been inherited from the RSM classes. A <<metamodel>> stereotype is added to the $\underline{\tt UML}$ rendering of the MOF-based metamodel; and the MOF properties are set on the UML rendering.

20 Claims, 8 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Secuences Alegaranis	Claims	KMC	Draw, De

☑ 3. Document ID: US 6601233 B1

L4: Entry 3 of 7

File: USPT Jul 29, 2003

US-PAT-NO: 6601233

DOCUMENT-IDENTIFIER: US 6601233 B1

TITLE: Business components framework

DATE-ISSUED: July 29, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Underwood; Roy Aaron Long Grove

US-CL-CURRENT: 717/102; 717/100, 717/101, 717/103, 717/104, 717/106, 717/107

ABSTRACT:

A method of generating software based on business components. A plurality of logical business components in a business are first defined with each business component having a plurality of capabilities. Next, functional interrelationships are identified between the logical business components. Code modules are then

generated to carry out the capabilities of the logical business components and the functional interrelationships between the logical business components, wherein the code modules represent a transformation of the logical business components to their physical implementation, while ensuring the capabilities that are carried out by each code module are essentially unique to the logical business component associated with the code module. Next, the functional aspects of the code modules and the functional relationships of the code modules are tested. The code modules are then subsequently deployed in an e-commerce environment.

18 Claims, 177 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 111

Full Title Citation Front Review Classification Date Reference Scottered Attachments Claims KWIC Draw, De

☑ 4. Document ID: US 6550057 B1

L4: Entry 4 of 7

File: USPT

Apr 15, 2003

US-PAT-NO: 6550057

DOCUMENT-IDENTIFIER: US 6550057 B1

** See image for Certificate of Correction **

TITLE: Piecemeal retrieval in an information services patterns environment

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bowman-Amuah; Michel K. Colorado Springs CO

US-CL-CURRENT: 717/126; 700/80, 707/5, 717/101, 717/102, 717/108, 717/109, 717/113

ABSTRACT:

A system, method and article of manufacture are provided for providing a warning upon retrieval of objects that are incomplete. An object is provided with at least one missing attribute. Upon receipt of a request from an application for the object access to the attributes of the object is allowed by the application. A warning is provided upon an attempt to access the attribute of the object that is missing.

15 Claims, 195 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 123

Full	Title	Citation	Front	Review	Classification	Date	Reference	SPANISTURE	Withhold Mark	Claims	KWIC	Drawd D
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☐ 5. Document ID: US 6550053 B1

L4: Entry 5 of 7

File: USPT

Apr 15, 2003

US-PAT-NO: 6550053

DOCUMENT-IDENTIFIER: US 6550053 B1

TITLE: Time estimator for object oriented software development

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Muckley; Stuart

Reading

GB

US-CL-CURRENT: 717/100; 702/102, 702/186, 705/9

ABSTRACT:

A method of estimating the time a particular designer or any one of a group of designers will take to realize a new design using an object-oriented methodology. The particular version, for each designer, or group of designers, of a formula which links time taken and the number of predetermined types of object-oriented elements, each element type having a respective multiplier for each designer or group of designers, is determined by "training" using the number of the elements employed and the actual time taken, for a number of previous designs, realized by that designer or group of designers. For the new design, the numbers of the elements to be present is determined and this data inserted into the formula with the respective designer's designers' multipliers and an estimate of time obtained.

10 Claims, 4 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Serie Control	Propagation	Claims	KWC	Draw, De
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☐ 6. Document ID: US 6421821 B1

L4: Entry 6 of 7

File: USPT

Jul 16, 2002

US-PAT-NO: 6421821

DOCUMENT-IDENTIFIER: US 6421821 B1

TITLE: Flow chart-based programming method and system for object-oriented languages

DATE-ISSUED: July 16, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Lavallee; Ronald J.

Northville

MD

48167

US-CL-CURRENT: 717/109

ABSTRACT:

A visual programming aid for object-oriented programming provides high level visualization for domain experts of the entire object-oriented program to permit

understanding of the program on a macro level and to permit the domain expert to participate in the programming. In one embodiment, this is accomplished by visually arranging objects in flow charts, each object having a block number. The entire flow chart system represents the flow of events, not the flow of time. This permits concurrent execution of objects if the events permit. The objects are characterized as either action blocks or decision blocks, or both. In one embodiment action blocks are denoted as three dimensional rectangles, and decision blocks as three dimensional diamonds. Whether an object is an action or decision type is determined by object characterization which is the process of type casting the function of an object at its point of use on the flow chart. Note that decision objects are used to define the flow of groups of objects which do not have flow by themselves. In one embodiment, all objects execute independent of one another until such time as a decision object requires information from another object, with the result being that object execution is not stopped to get the results of another object. The flow chart visual programming aid represents flow charts in three dimensions, in one embodiment, with the third dimension permitting showing spinning another thread at a flow juncture. Each object block is provided in one embodiment with a snap shot tab used to call up information about the object in video, audio, pictorial or text form to provide the domain expert with the ability to further understand the object and provide input. An algorithm is presented for flow chart execution which uses the flow chart block numbers and is the same for all flow charts.

2 Claims, 11 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Altermiens	Claims	KWIC	Drawu De

☐ 7. Document ID: US 6292933 B1

L4: Entry 7 of 7

File: USPT

Sep 18, 2001

US-PAT-NO: 6292933

DOCUMENT-IDENTIFIER: US 6292933 B1

** See image for Certificate of Correction **

TITLE: Method and apparatus in a data processing system for systematically serializing complex data structures

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Bahrs; Peter C. Austin TX Chancey; Raphael Poole Austin TXFeigenbaum; Barry Alan Austin TX Modh; Manish Mahesh Round Rock TX Sundberg; Sean Michael Cedar Park TΥ Woolfrey; John Allen Hubert Mississauga CA

US-CL-CURRENT: 717/107; 707/203, 717/108, 717/109

ABSTRACT:

A method and apparatus in a data processing system for serialization data. A serializer receives a data element for serialization, wherein the data element includes a <u>class</u> name string. Responsive to receiving the data element, the serializer replaces the <u>class</u> name string with a code having a smaller size than the class name string to form a modified data element. Responsive to forming the modified data element, in which the serializer serializes the modified data element. The serialized data is transmitted and deserialized by deserializer which replaces the indicator with the class name.

24 Claims, 197 Drawing figures Exemplary Claim Number: 1 Number of Drawing Sheets: 119

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